BOOK

ons		Contents	Reference to last Measurement
eadth 5	Depth 6	7	8

SBRNO-218/15-16
31-12-15
1st and final Bill

M. A. R. 57 (Rule 116)
Measurement Book

BR-26A/30-1-16

No. B

249110

erial No. .....

ame of Work ..... Drop and Asphalting from Lakshmipathipuram and Sir M.V. Layout main Road and Cross Roads in Ward No. 09.

ame of Contractor of nature of Agency ..... Aswath Narayana

ate of commencement of work ..... D.o. Recvd 2

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Estimated cost Rs	= 25.00 Lakhs.					
	NIB. No	= 009-15-000023					
	Work order No	dt 05-02-2015				EE/BTP/BBMP/E-PMT/293/2014-15	
	Date of Commencement	= 06/02/2015					
	Date of Completion	= 18-12-2015					
(1)	Earthwork Excavation by manual means in ordinary soil						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	involving an average horizontal throw upto 2m and an average lift upto 0.5m, Excavated surface levelled and sides neatly dressed, the disposed Earth to be levelled neatly after breaking clods etc complete as per specifications and directions of Engineer-in-charge of Work.						
	Qty vide this MB p 24/84						
	It no (1) 2					646.00 m^3 @ 90.00	58144.00
(1)	Scarifying Existing stone metal layers upto 75mm thick along with their bituminous surface, picking up						

erial No. .....
ame of Work .....
ame of Contractor of nature of Agency .....
ate of commencement of work .....

Date	Full description, etc, of work	Nu
1	2	
	classified materials, [illegible] of the salvaged materials on prepared base and [illegible] specifications of machineries etc complete directions of Engineer-	

BOOK

dth	Depth 6	Contents 7	Reference to last Measurement 8
		upto 2m and as	
		ged levelled and	
		earth to be levelled	
		ct as per specific	
		charge of work.	
		this MB p 249184	
		646.00 m³ @ 90.00/m³	58144.00
		ns upto 75mm	
		suffee, picking up	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

249111

erial No. .....
ame of Work ..... From..... To.....
ame of Contractor of nature of Agency .....
ate of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	decayed materials. Instead of 100m, sequential spreads of the salvaged materials on lead of the fresh aggregates on prepared base and consolidated as per Water bound macadam specifications including casting all labour, use of machineries etc complete as per specifications and directions of Engineer-in-charge of the Work.						
		Being work done this MB p 249186.					
		# no. (2)				3268.0 m²	28436.00
		@ 87.00/m²					

T BOOK

sions		Contents	Reference to last Measurement
Breadth 5	Depth 6	7	8
		npacting graded cedure specification Water at OMC in and watered by tipper ith power in sub-base/ ge and Compacting with ed density etc complete ne of Engineer-in- le as in MB. P. 249/88 NO. (5) = 479.00 M³	e1400/M³ 670600.00

M. A. R. 57 (Rule 116)
Measurement Book

No. B

249112

erial No. .....
ame of Work ..... From..... To.....
ame of Contractor of nature of Agency .....
ate of commencement of work .....

Date	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	(4) Cleaning the existing WBM Road surface including removing the binding materials and other foreign matter with wire brushes/ small picks, sweeping with brooms or dash brushes and finally dusting with old gunny bags and or compressed air to receive the bituminous treatment including costs of all material, labour, tools, machineries curing etc complete as per specifications and directions of Engineer-in-charge of work.						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
a)	8m m.r. layout main Road from - Bamboo Road [0.00 to 88.60 mts]	1	30.00	5.3+4.6 / 2	-	148.50	
		1	30.00	4.6+4.4 / 2	-	135.00	
		1	28.60	4.4+5.1 / 2	-	135.80	
b)	2nd cross - 8m m.r. layout [0.00 to 109.50 mts]	1	30.00	5.9+4.8 / 2	-	160.50	
		1	30.00	4.8+4.1 / 2	-	138.00	
		1	30.00	4.4+4.1 / 2	-	127.50	
		1	19.50	4.1+3.8 / 2	-	72.10	
c)	4th cross m.r. layout [0.00 to 304.10 mts]	1	30.00	5.0+4.8 / 2	-	142.50	
		1	30.00	4.5+4.7 / 2	-	138.00	

M. A. R.
Measu

erial No. .....
ame of Work ..... From.....
ame of Contractor of nature of Agency .....
ate of commencement of work .....

Date	Full description, etc, of work	Number
	2	3
		1
		1
		1
		1
		1
		1
		1
		1

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

T BOOK

ions		Contents	Reference to last Measurement
Breadth 5	Depth 6	7	8
3+4.6 / 2	-	148.50	
6+4.4 / 2	-	135.50	
4+5.1 / 2	-	135.80	
9+4.8 / 2	-	160.50	
8+4.6 / 2	-	138.00	
4+4.0 / 2	-	127.50	
1+3.3 / 2	-	72.10	
4.5 / 2	-	142.50	
5+4.7 / 2	-	138.00	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

249113

rial No. .....
me of Work ..... From..... To.....
me of Contractor of nature of Agency .....
te of commencement of work .....

ate	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
		1	30.00	4.7+4.5 / 2	-	138.00	
		1	30.00	4.5+4.6 / 2	-	136.50	
		1	30.00	4.6+4.8 / 2	-	141.00	
		1	30.00	4.8+4.5 / 2	-	139.50	
		1	30.00	4.5+4.6 / 2	-	138.50	
		1	30.00	4.6+4.7 / 2	-	139.50	
		1	30.00	4.7+4.8 / 2	-	142.50	
		1	34.12	4.8+5.0 / 2	-	177.32	

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore-97

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(d)	11 m 'A' CROSS Sir. m.r. Lyt L/S of main Rd. 1 C/O. upto 82.50 mts	1	30.00	4.8+4.5 / 2	-	139.50	
		1	30.00	4.5+4.6 / 2	-	136.50	
		1	23.50	4.6+3.7 / 2	-	93.38	
(e)	12 m 'A' CROSS L/S Road	1	30.00	4.9+6.1 / 2	-	165.00	
		1	30.00	6.1+4.8 / 2	-	163.50	
		1	30.00	4.8+5.8 / 2	-	159.00	
		1	30.00	5.8+6.0 / 2	-	177.00	
		1	30.00	6.0+5.3 / 2	-	169.50	
		1	30.00	5.3+4.8 / 2	-	151.50	

M. A. R.
Measu

rial No. .....
me of Work ..... From.....
me of Contractor of nature of Agency .....
te of commencement of work .....

ate	Full description, etc, of work	Number
	2	3
		1
		1
		1
		1
5)	Providing and applying tack	

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AEE Vidyaranyapura
Assistant Executive E
Vidyaranyapura Sub
BBMP, Bangalor

ENT BOOK

Dimensions			Contents	Reference to last Measurement
n	Breadth 5	Depth 6	7	8
	4.8+4.5/2	-	139.50	
	4.8+4.6/2	-	136.80	
	4.6+3.7/2	-	93.38	
	4.9+6.1/2	-	165.00	
	6.1+4.8/2	-	163.50	
	4.8+5.8/2	-	159.00	
	5.8+6.0/2	-	177.00	
	6.0+5.3/2	-	169.50	
	5.3+4.8/2	-	151.50	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

249114

rial No. .....
me of Work ..... From..... To.....
me of Contractor of nature of Agency .....
te of commencement of work .....

ate	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
		1	30.00	4.8+5.0/2	-	147.00 m2	
		1	30.00	5.0+4.9/2	-	148.50	
		1	9.20	4.9+6.1/2	-	50.60	
		1	29	5.50+5.57/2	-	160.05	
						4235.00	
					Add 6	4225.00 m2	50,700.00
						@12/m2	
5)	Providing and applying tack coat using 80/100 grade						

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore-97

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	bitumen (VG-10) on the prepared black topped surface at 2.5 kg/m², heating bitumen in boiler fitted with spray set (excluding cleaning of Road surface) including costing all materials, labour, tools, machinery etc complete as per specifications and directions of Engineer in charge of the work						
	Qty vide item no. (4) = 4225.00 m²						
	@ 18.00/m²						76050.00
(6)	Providing and laying semi dense bituminous concrete using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot						

rial No. .....
me of Work .....
me of Contractor of nature of Agency .....
te of commencement of work .....

Date	Full description, etc, of work	N
	2	
	mix to work site, laying required grade, level smooth wheeled, vibr active to desired com Clause no. 508. com specifications, using ... CRMB-55 grade, et and directions of En	

BOOK

ons		Contents	Reference to last Measurement
eadth 5	Depth 6	7	8
ol-de topped surface r filled with spray e] including costs ers etc complete ngineer in charge) th nu. (4) = 4225.00 sq @ 18.00/sq			76050.00
ferrous concrete ed grading, pavement transporting to hot			

M. A. R. 57 (Rule 116)
Measurement Book

No. B

249115

rial No. .....
me of Work ..... From..... To.....
me of Contractor of nature of Agency .....
te of commencement of work .....

Date	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	mix to work site, laying with paver & finisher to the required grade, level and alignment, Rolling with smooth wheeled, vibrating cum tandem Rollers to achieve the desired compaction as per morth specification Clause. no. 508. complete in all respects as per specifications, using 100-120 tph capacity, hmp with sensor paver grading II (25-30 mm) with sf. CRMB-55 grade, etc complete as per specification. and directions of Engineer-in-charge of the work.						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Depression filling				Avg		
	(a) 8th m.r. Lyothmas Road	1	5.60	4.80	0.025	0.60 m³	
		1	10.90	3.80	0.025	1.04 "	
		1	10.20	4.20	0.025	1.07 "	
	(b) 2nd Cross-Road	1	15.20	4.00	0.025	1.52 "	
		1	8.50	4.10	0.025	0.87 "	
		1	12.10	4.50	0.025	1.36 "	
	(c) 4th Cross-Road	1	5.50	4.00	0.025	0.55 "	
		1	11.20	4.50	0.025	1.26 "	
	(d) - 11th B' Cross Road	1	10.10	4.20	0.025	1.06 "	
	(e) 12th B' Cross Road	1	8.55	3.80	0.025	0.81 "	
	for Asphalting	1	6.50	3.50	0.025	0.57 "	
	(a) 8th m.r. Lyothmas Road 0.00 to 30.60	1	30.60	5.34	0.025	3.71 m³	
				2		14.42 m³	

ial No. .....
me of Work .....
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te of commencement of work .....

ate	Full description, etc, of wor
	2
	Ch. 30.00 to 60.0
	60.0 to 88.6
	(b) 2nd Cross-Road
	Ch. 0.00 to 30.0
	30.00 to 60.0
	60.00 to 90.0
	90.0 to 109
	(c) 4th Cross. Ro
	Ch. 0.00 to 30

OK

Depth 6	Contents 7	Reference to last Measurement 8
0.025	0.60 m³	
0.025	1.04 "	
0.025	1.07 "	
0.025	1.52 "	
0.025	0.87 "	
0.025	1.36 "	
0.025	0.55 "	
0.025	1.26 "	
0.025	1.06 "	
0.025	0.84 "	
0.025	0.54 "	
0.025	3.71 m³	

14.42 m³

M. A. R. 57 (Rule 116)
Measurement Book

No. B

249116

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6 Avg	Contents 7	Reference to last Measurement 8
	Ch. 30.00 to 60.0 m	1	30.00	$\frac{4.6+4.4}{2}$	0.025	3.38	
	60.0 to 88.60 m	1	28.60	$\frac{4.4+3.1}{2}$	0.025	3.40	
	(b) 2nd CROSS-ROAD						
	Ch. 0.00 to 30.0 m	1	30.00	$\frac{5.2+4.8}{2}$	0.025	4.01	
	30.00 to 60.0 m	1	30.00	$\frac{4.8+4.4}{2}$	0.025	3.45	
	60.00 to 90.0 m	1	30.00	$\frac{4.4+4.1}{2}$	0.025	3.19	
	90.0 to 109.50 m	1	19.50	$\frac{4.1+3.3}{2}$	0.025	1.80	
	(c) 4th CROSS. ROAD 30	1	30.00	$\frac{5.0+4.5}{2}$	0.025	3.36	
	Ch. 0.00 to 30.0 m					37.41	

Executive Engineer

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Ch. 30.00 to 60.00 m	1	30.00	$\frac{4.5+4.7}{2}$	0.025	3.45	
	60.0 to 90.00 m	1	30.00	$\frac{4.5+4.6}{2}$	0.025	3.41	
(2)	90.0 to 120.0 m	1	30.00	$\frac{4.6+4.8}{2}$	0.025	3.53	
	120.0 to 150.0 m	1	30.00	$\frac{4.8+4.5}{2}$	0.025	3.49	
Checked.	150.0 to 180.0 m	1	30.00	$\frac{4.8+4.6}{2}$	0.025	3.41	
	180.0 to 210.0 m	1	30.00	$\frac{4.6+4.7}{2}$	0.025	3.45	
30/1/19	210.0 to 240.0 m	1	30.00	$\frac{4.7+4.8}{2}$	0.025	3.56	
Executive Engineer Byatarayanapura Division Yelahanka Zone, B.B.M.P. Bangalore - 560 092	240.0 to 270.0 m	1	30.00	$\frac{4.7+4.5}{2}$	0.025	3.45	
	270.0 to 304.10 m	1	34.10	$\frac{4.8+5.6}{2}$	0.025	4.43	
						69.63 m	

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Num
1	2	3
	(d) 11 m BT CROSS 4/5 Road	
	0.00 to 30.00 m	1
	30.0 to 60.0 m	1
	60.0 to 82.50 m	
	(e) 12 m BT CROSS 4/5 Road	
	0.0 to 30.00 m	
	30.0 to 60.0 m	
	60.0 to 90.0 m	

ENT BOOK

gth 4	Dimensions: Breadth 5	Depth 6	Contents 7	Reference to last Measureme 8
0	4.5+4.7 / 2	0.025	= 3.40	
0	4.5+4.6 / 2	0.025	= 3.41	
0	4.6+4.8 / 2	0.025	= 3.53	
0	4.8+4.5 / 2	0.025	= 3.49	
0	4.5+4.6 / 2	0.025	= 3.41	
0	4.6+4.7 / 2	0.025	= 3.48	
0	4.7+4.8 / 2	0.025	= 3.56	
0	4.7+4.5 / 2	0.025	= 3.45	
10	4.8+5.6 / 2	0.025	= 4.43	
			69.63 m²	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

Serial No. .....

Name of Work ..... From..... To..... 249117

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	(d) 11 m 'A' CROSS 4/3 Road						
	0.00 to 30.00	1	30.00	4.8+4.5 / 2	0.025	= 3.49	
	30.0 to 60.0m	1	30.00	4.3+4.6 / 2	0.025	= 3.41	
	60.0 to 82.50m	1	22.50	4.6+3.7 / 2	0.025	= 2.33	
	(e) 12 m 'A' CROSS. 4/3 Road						
	0.0 to 30.00	1	30.00	4.8+6.1 / 2	0.025	= 4.13	
	30.0 to 60.0m	1	30.00	6.1+4.8 / 2	0.025	= 4.09	
	60.0 to 90.0m	1	30.00	4.8+5.6 / 2	0.025	= 3.98	
						91.06	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	90.00 to 120.0 m	1	30.00	$\frac{5.8+6.0}{2}$	0.025 = 4.43		
	120.0 to 150.0 m	1	30.00	$\frac{6.0+5.7}{2}$	0.025 = 4.25		
	150.0 to 180.0 m	1	30.00	$\frac{5.3+4.8}{2}$	0.025 = 3.79		
	180.0 to 210.0 m	1	30.00	$\frac{4.8+5.0}{2}$	0.025 = 3.69		
	210.0 to 240.0 m	1	30.00	$\frac{5.0+4.9}{2}$	0.025 = 3.71		
	240.0 to 270.0 m	1	9.20	$\frac{4.9+6.1}{2}$	0.020 = 1.27		
		1	29.10	5.00	0.025 = 4.00		
						116.19	
					e	11070.00 m³	12,86,223.00
(1)	Lead for Disposal of debris shall be payable at Conveyance						

C4F Measured

S. S. S.

rials by mechanical m
are complete as per
In-charge of Work.

Certificate

(1) certified that the
done satisfactorily
(2) the contractor has

IT BOOK

ensions Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
5.8+6.0/2	0.025	= 4.47	
6.0+5.7/2	0.025	= 4.24	
5.3+4.8/2	0.025	= 3.79	
4.8+5.0/2	0.025	= 3.69	
5.0+4.9/2	0.025	= 3.71	
4.9+6/2	0.025	= 1.23	
5.00	0.25	= 4.00	
		116.19	
	e	11070.00	12,86,223.00

payable at Carriage

M. A. R. 57 (Rule 116)
Measurement Book

No. B

249118

erial No. .....
ame of Work ..... From..... To.....
ame of Contractor of nature of Agency .....
ate of commencement of work .....

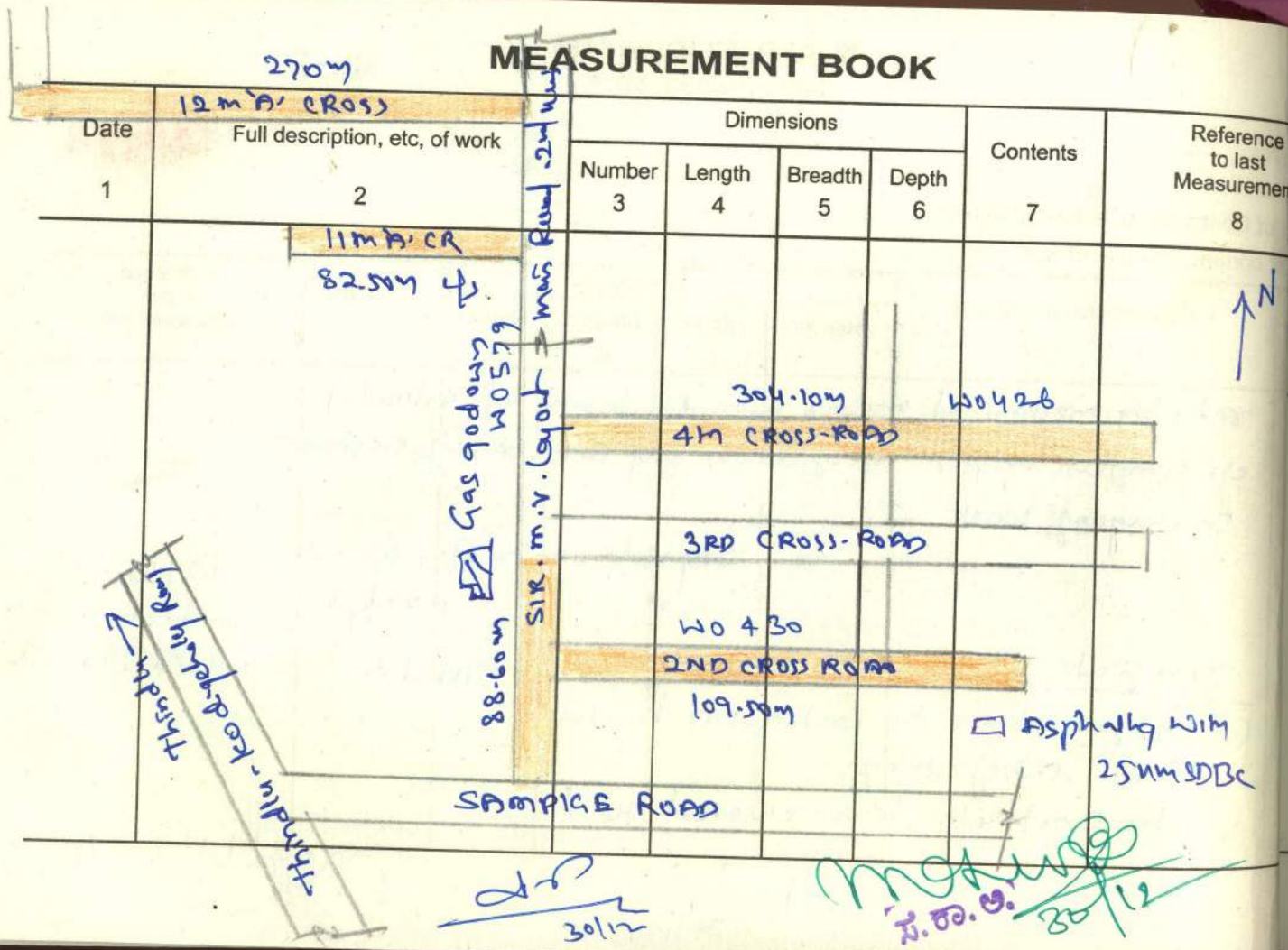
Date	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	rates by mechanical means including loading and unloading etc complete as per Specifications and direction of Engineer Incharge of Work.						
	Qty vide . 1st no (1) : 546.05						
						₹73/43	47161.60
	Certificate					Total B	24,73,195.45
	(1) certified that the Contractor has work done satisfactorily.						
	(2) The Contractor has removed the debris.						

30/12

30/12/15

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8



rial No. .....
me of Work .....
me of Contractor of nature of Agency .....
te of commencement of work .....

ate	Full description, etc, of work	N
	2	

ಬಿಲ್ಲು ಮೊಬಲಗು ರೂ. 24,73,19
ಸಲ್ಲಿಸಿದ ಮಾಡಿದ : ಇದರಲ್ಲಿ ರೂ.
ಮೊದಲಾಗಿ ಮಾಡಿಕೊಂಡದ್ದು ಅಂದಾಜು ಮೊ
ರೂ. 23,90,268
ಬೇಕಾದಂತೆ ಸಲ್ಲಿಸಲಾಗಿದೆ
ತಿಳಿಸಿದೆ
ಲೆಕ್ಕಾಧಿಕಾರಿಯು

BOOK

ns		Contents	Reference to last Measuremen
adth 5	Depth 6	7	8
			N
			W0426

M. A. R. 57 (Rule 116)
Measurement Book

No. B

249119

ial No. .....
me of Work ..... From..... To.....
me of Contractor of nature of Agency .....
te of commencement of work .....

ate	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	ಮಲ್ಲು ಜೊಬುಗಳು ರೂ 24,73,190=00 ಗಳ್ಳೆವಾಸು ಮಾಡಿದೆ: ಇದರಲ್ಲಿ ರೂ 382922=00 ಜೊಂಪಾಡಿಕೆ ಮಾಡಿಕೊಂಡು ಉಳಿದ ಜೊಬುಗಳು ರೂ 23,90,268=00 ಟೆಕ್ ಪುಟಾಂತರ ನೀಡಲಾಗಿದೆ ಲೆಕ್ಕಾಧಿಕಾರಿಯು ಸಾ.ಕಾ.ಇ.				IT — 24732 — WCT — 98928 — ESI — 160737 — LWF — 24732 — CSF — 2473 — Roy — 64300 — Fire — 2000 — TOTAL — 382922=00		

Asphalting with 25mm SDBC

ಸಾ.ಕಾ.ಇ. 30/12